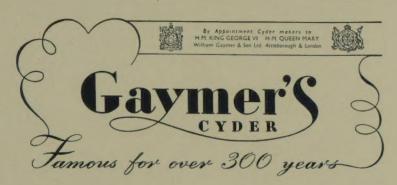
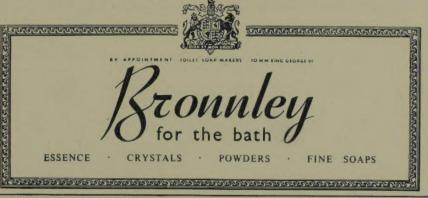
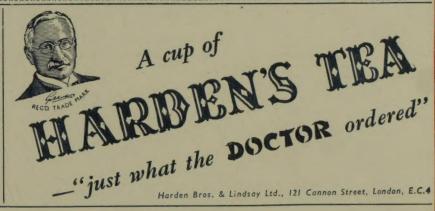


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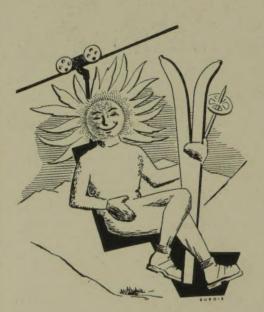


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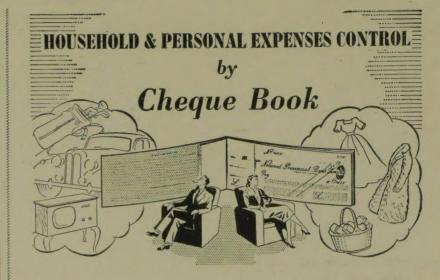
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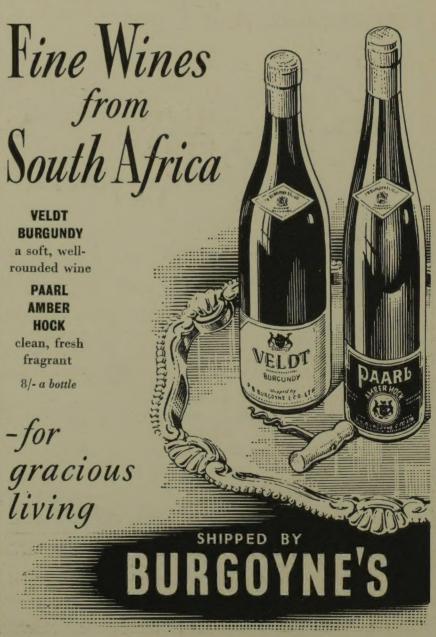




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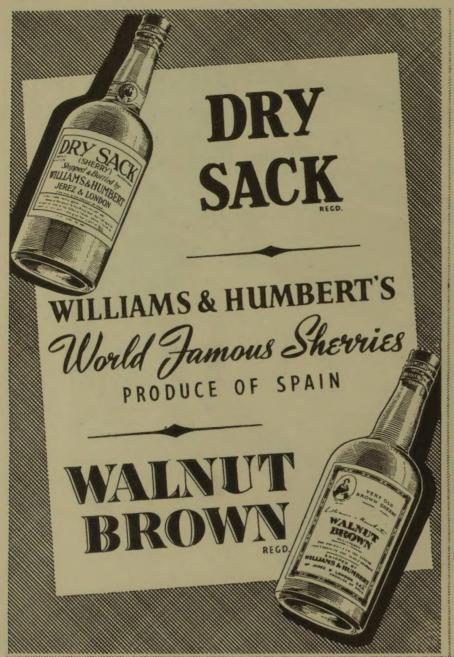
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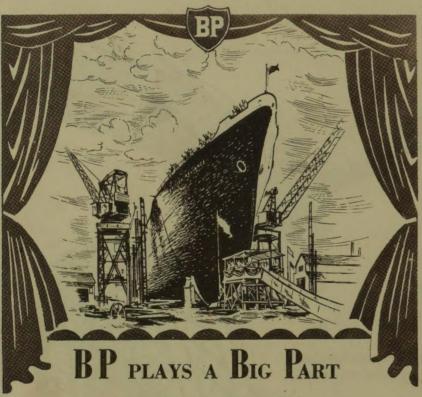


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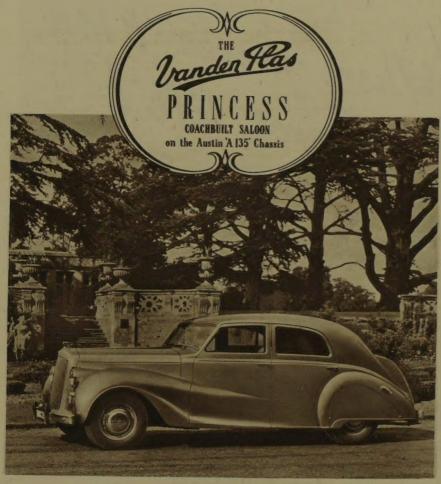
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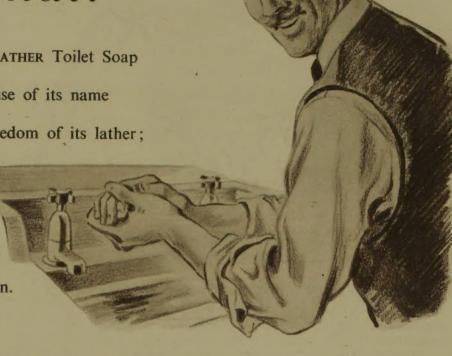
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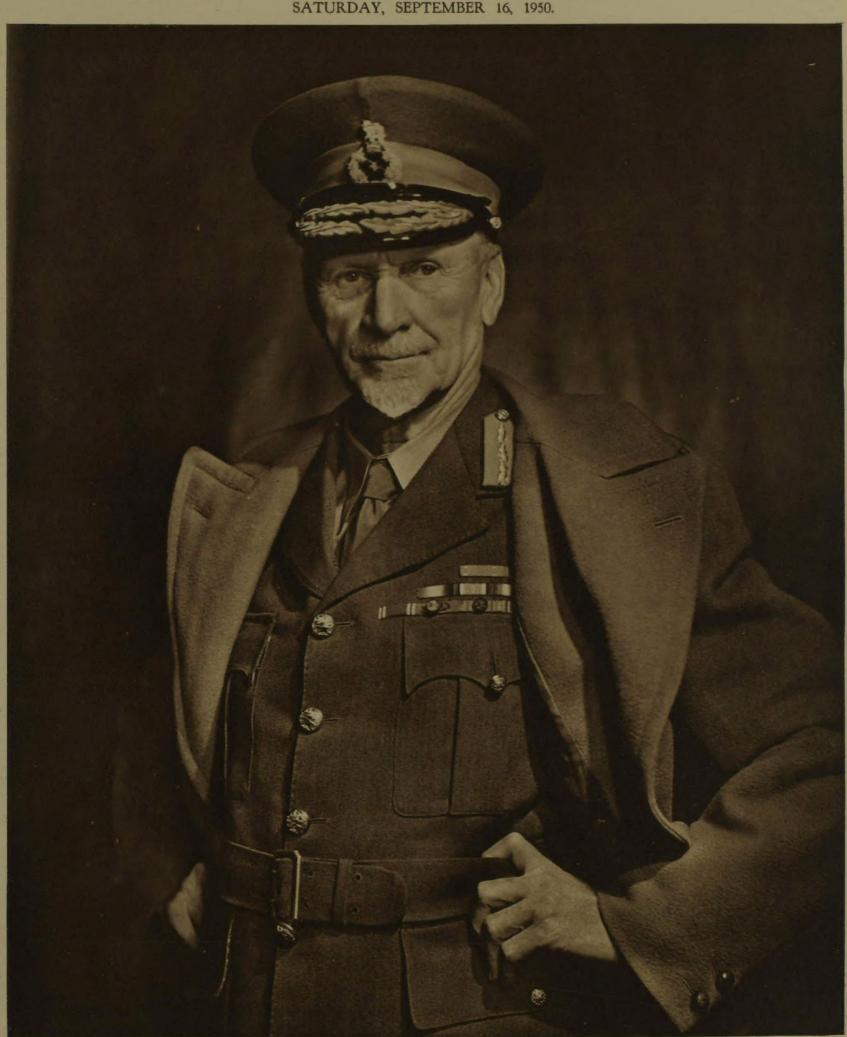
'TAKE A LOT OF BEATING'

BLACKWOOD MORTON KILMARNOCK

THE ILLUSTRATED TOOM TO THE TENED TO THE T

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SATIRDAY SEPTEMBER 16 1050



THE OLD SOLDIER STATESMAN WHOSE DEATH "LEAVES ALL THE WORLD THE POORER": FIELD MARSHAL JAN CHRISTIAAN SMUTS, O.M.

The death of one of the greatest men of our time, General Smuts, took place on Sept. 11, at his farm near Pretoria. General Smuts, who celebrated his eightleth birthday only a few months ago, had been ill since May 28 and had recently been suffering from a former heart strain following influenza. Field Marshal Smuts, who preferred to be known as General Smuts, was the first

man of Dominion birth to attain that rank. In his youth he engaged in a war against the Empire for the independence of the Boer Republic; he later commanded Imperial Armies in the field and became Prime Minister of South Africa; in his old age he led his country and commanded its forces in World War II. His death is mourned throughout the world.

[Photograph by Karsh of Ottawa.]



By ARTHUR BRYANT.

A few years before the War, lecturing at the R.A.F. Apprentices' School at Halton, I made use of a phrase that was more true than I knew. I had been speaking of the close relation—one then so insanely forgotten by our leading intellectuals-between the historic British command of the seas and the development, preservation and expansion of our liberties. After outlining the naval occasions by virtue of which it had been won and maintained, I looked up from my notes and, on the spur of the moment, added, "Gentle men, it may now depend on you!" Three years later, in the Battle of Britain, the truth of my words was most dramatically proved. The R.A.F., in that epic autumn, saved this country and, with it, the world's freedom. It did so again in those laborious years of preparation and endurance before the assault on Hitler's western wall, when night after night the crews of Bomber Command went on their perilous missions, suffering losses in proportion to their strength unparalleled in any sustained successful operation known to history yet winning thereby that stranglehold on the aggressors production-centres and communications without which D-Day would have been a shambles and a disaster and the flying bombs would have destroyed London and given the Nazis the key to Europe's permanent

We can never be sufficiently grateful. The Royal Air Force in its thirty years of brief life has won its place in the English heart beside the Royal Navy for the service it has done in preserving all we love and value. The strains of Walford Davies' noble R.A.F. March arouse something of the same associations and emotions as that noble air of "Sunset" played by a Royal Marines band at the highest moment of naval ceremony. They remind us, with a sense of pride, pity and tenderness too deep for words, of the valour, sacrifice and unselfishness and imperishable glory of those who, transcending their own human needs and inclinations, laid down all they loved for their country and gave her existence continuance and her beliefs They commemorate all that was beautiful in those freely-given and dedicated lives, the stricken but immortal love of their comrades and dear ones, the hours of life and happiness and preparation that had gone to make them what they were and, in doing so, to serve and save England. And they remind those who hear them that in the service of England there is no finality or discharge, that life for every one of us has a purpose, and that its highest achievement is sacrifice—the key that alone opens the door to the truest and enduring aspirations of men. For, if their sacrifice has any meaning, it is that the end of life is not material satisfaction but mastery over self in the cause of something more satisfying and lasting than self.

Yet such spiritual greatness can only be achieved at a heavy price of intense human suffering, both material and mental, endured both by the giver of the initial sacrifice and by those who love and depend on him. The Royal Air Force Benevolent Fund exists to reduce so far as possible the extent of such unavoidable suffering and loss. Founded in 1919 by Marshall of the Royal Air Force Lord Trenchard, the man who more than any other was responsible for the creation of the service that saved England in 1940, it offers assistance to all R.A.F. personnel and their dependents who stand in need of it. Anyone commissioned

or enlisted in the R.A.F. or W.R.A.F. in whatever capacity is qualified for consideration by the fact of his or her service, whether past or present. Those applying in writing for aid to the Headquarters of the Fund at 67, Portland Place in London, are interviewed there, or, more often, locally, by voluntary or stipendiary representatives specially trained for this work—one demanding, as it does, an infinity of tact, sympathy and business-like clarity. Their needs



TAKING OVER COMMAND OF Magpie: H.R.H. THE DUKE OF EDINBURGH SEEN WELCOMED ABOARD BY COMMANDER HARPER (TOP); AND IN CONVERSATION WITH HIM (CENTRE); BEFORE THE OFFICERS WERE PRESENTED TO HIM (BOTTOM).

are then assessed. The Fund's capital assets, subscribed by patriotic and grateful men and women in civil life and by a majority of serving officers and other ranks of the R.A.F., to-day total over five millions sterling, and are supplemented every year by new subscriptions by the Public. But after two great wars, entailing untold suffering and hardship on R.A.F. personnel and those connected with them, the unavoidable demands made on the Fund always exceed its revenues. Last year nearly 3 quarters of a million was spent on all forms of assistance to serving and ex-Service members of the R.A.F. and W.R.A.F. and their dependents—a sum more than £300,000 in

excess of income during the same period. It is essential, therefore, if the Fund is to continue to fulfil its great purpose, that the Public should subscribe to it liberally. It has a particular opportunity to do so at the present moment in Battle of Britain Week, now taking place on the tenth anniversary of that miraculous victory. Those who reflect—as many well may and have cause to—that the financial burdens they are called upon to shoulder at the present time are crippling and almost overwhelming, can hearten themselves for the payment of this debt of obligation by the remembrance that, but for the R.A.F.'s sacrifice and triumph, they would have to-day no freedom of choice of any kind, economic or otherwise.

The work that the Fund performs is of many kinds: grants or loans in time of sickness or convalescence or of great financial stringency, in providing tools and working equipment, in meeting maternity and similar expenses, in redeeming pawned articles and pressing debts incurred by virtue of past services, in the education of children and the provision of housing. The educational work of the Fund is among its most important activities and last year accounted for more than a tenth of its total expenditure. It is the Fund's policy that children whose fathers were killed or died whilst serving with the R.A.F. should receive education of the standard they would have been given had they not been orphaned. This help is continued from earliest schooldays to the University if the child shows real promise. Among those benefitting from it at the present time—and I see him after every term—is a boy whose father, formerly an apprentice at the great R.A.F. Apprentices School at Halton, to which he had gone, like so many of its members, from a fine provincial Grammar School, fought as a sergeant-pilot in the Battle of Britain and won the D.F.M. in its course. Later this gallant young pilot was commissioned, rose to the rank of Flight-Lieutenant and won the D.F.C. He was killed towards the end of the War flying Mosquitoes. He left behind a widow and two children, a boy and a girl, as well as a devoted mother and father whose only son he was-the latter himself a most faithful servant of England who had served in all three Services, as a Regular soldier before 1914, as a Chief Petty Naval Officer during and after the first World War, and, at an advanced age, as a technical Sergeant Instructor in the R.A.F. during part of the late War. During the Battle of Britain the hero of this story—one of many similar ones which together story—one of many similar ones which together helped to change the course of human destiny -was shot down in flames and left unconscious, covered in oil, near his aircraft. He was sub-sequently retrieved and found to be suffering from severe shock and bruises but not, by some miracle, seriously wounded. In the stress of that time, instead of being taken to hospital, he was sent home to his parents on convalescent leave to recover. After twenty-four hours at home, deeply grateful for the peace and rest and love by which he found himself surrounded, he quietly told his father and mother that his comrades were fighting the Battle of Britain without him and that he must return. Next day, though anything but fit, he reported for duty and insisted on resuming operational flying. It is to repay some small part of the debt that we owe to such men that the R.A.F. Benevolent Fund exists and that its support is a permanent duty of all who love their country.





(TOP) THE SUBSIDENCE OF WATERLOGGED LAND WHICH BURST THROUGH INTO THE UNDERGROUND WAYS OF KNOCKSHINNOCH-CASTLE COLLIERY AND TRAPPED 129 MINERS, SHOWING (RIGHT) THE TRUCKS, TIMBER AND RUBBLE THROWN DOWN IN AN ATTEMPT TO STOP THE FLOW; AND (BELOW) SOME OF THE RESCUED BEING BROUGHT TO THE SURFACE, AFTER A RESCUE LASTING FIFTY-THREE HOURS.

AN EPIC COLLIERY RESCUE: THE GREAT KNOCKSHINNOCH SUBSIDENCE, AND SOME OF THE RESCUED MINERS.

At 8 p.m. on Sept. 7, a huge subsidence of waterlogged land blocked the main underground road of Knockshinnoch Castle Colliery, Ayrshire, trapping 129 men. A great rescue operation began and at midnight, Sept.

7/8, reached 116 of the trapped men. Owing to gas it was impossible to move them until early on Sept. 10, after 53 hours incessant labour by hundreds of rescuers.

A WINDOW ON THE WORLD. THE NORTH KOREANS STRIKE A GREAT BLOW.

By CYRIL FALLS,

Chichele Professor of the History of War, Oxford.

On September 1 the Communist Army of North Korea launched the heaviest offensive witnessed since the first phase of the invasion. The first results achieved were astonishingly great, far exceeding those of any of the numerous attacks carried out since the defence of the "river line" of the Naktong began. This was in the main due to the fact that the assault was carried out in far greater strength and on a broader front than heretofore. Another factor was the fine weather, which had diminished the flow of the Naktong and made it easily fordable almost everywhere; but the deepest initial penetration was effected, not across the river, but further south, beyond the big bend. Since August 17, when the enemy gained a success and seemingly had Taegu at his mercy, but failed either in resolution or for want of means, the western flank had been immersed in a quietude broken only by local actions. The chief North Korean attacks during the intervening period took place in the north, at Pohang and further inland. Some of these won success to begin with against South Korean forces; but the enemy showed no outstanding resolution and was as a rule quickly brought to a halt, without having seriously embarrassed the defence or gained any vital positions. any vital positions.



CONSTRUCTING AN UNDERWATER CAUSEWAY FOR THE UNITED NATIONS FORCES ACROSS TRIBUTARY OF THE NAKTONG RIVER: SOUTH KOREAN LABOURERS CARRYING LARGE BLOCKS OF STONE.

A TRIBUTARY OF THE NAKTONG RIVER: SOUTH KOREAN LABOURERS CARRYING LARGE

BLOCKS OF STONE.

The United States command was aware that the North Koreans were building up strength and organising a new oftensive from the west. This had, in fact. been expected for over a week. The delay seems to have been largely due to the attacks of the allied air forces on the enemy's lines of communication. Since reaching the Naktong he has never made use of tanks in as great strength as before. The shortage of tanks was probably not due in the main to his losses; he has lost a considerable number, but we know also that he has received plenty more, including a large consignment from Dairen. Difficulties of supply and maintenance have been the chief cause of his troubles. However, as has been proved, he was by no means wasting his time. He assembled not only a large force of troops but also a big supply of ammunition for the new offensive. Prisoners, an unusually big haul taken in the fighting about Haman, stated that food was short and bad; but these hardy troops can fight well on low rations. In the course of one morning they punched a hole said to be four miles wide and eight miles deep between the U.S. 25th Division in the south coast zone and the 2nd Division on its right. Further north they crossed the Naktong at about seventeen points. The river line ceased to exist for at least 20 miles; new positions taken up by the defence were in some cases ten miles to the east; and several American units were cut off and partially or wholly enveloped.

Counter-attacks were quickly mounted. Haman, lost at dawn, was recovered by dusk on the 1st. On the 2nd, a day on which renewed attacks by the enemy were expected, the allies, on the contrary, went over to the offensive, and a considerable depth of ground was recovered by their counter-attacks. In the south the defence of Masan was, for the time being, assured. Further north, Yongsan was regained. On the coast an advance was carried out north of Pohang; enough, it was reported, to make

Despite powerful air support, wholly lacking to the attacker, the allies have remained uncertain in defence, presumably because they are still heavily outnumbered. This war has peculiar characteristics, hardly known in modern times. It is being fought in a primitive country, against a primitive people. Yet there has been seen in it none of the usual features of a "small" or "colonial" war. The North Koreans were at the outset in some respects better armed than the Americans, though their equipment is, as a whole, inferior. When arms were simpler and more easily constructed and maintained primitive nations sometimes faced highly civilised states on equal terms. In our own, and in those days one gun was were opposed by artillery heavier than our own, and in those days one gun was much like another, so that the factor of superior accuracy was a minor one and guns of similar bore had a similar range, unless indeed there were differences in the quality of the powder. Now a period of warfare has been reached in which primitive nations cannot produce arms and equipment of the heavier and more complex types at all, and even highly civilised nations lacking in modern heavy industries can do so only to a limited extent.

more complex types at all, and even highly civilised nations lacking in modern heavy industries can do so only to a limited extent.

Here the North Koreans were supplied by the Russians with good modern armament, though perhaps not on the scale first reported. A military mission taught them how to use these tools, and it is said that there were about three times as many Russian instructors in North Korea as there were American in South Korea. Whether the northerners learnt their tactics of infiltration from the Russians I do not know. There is evidence that such tactics were used by the latter against the Germans, but detailed information on the subject is lacking. What has been reported from Korea, in particular about the road blocks so often established behind the defence, is reminiscent of Japanese tactics. Much has been said about the service of Koreans with Russian and Chinese Communist forces, but it should be remembered that large numbers of them served with the Japanese in the Second World War, though I believe not in the fighting line, as a rule. The world discovered years ago that the Japanese had a gift for twentieth-century warfare. In the Second World War, Europeans generally required superior numbers or armament, or both, to defeat them. What they could learn, the Koreans can also learn. What would have been the result of this campaign if air superiority had been on the other side?

Air superiority will always be the prerogative of the great industrial nations; it can never be wrung from them except briefly and locally. Atomic bombs, world-ranging rockets, aircraft carriers, and many other things which are used or may be used in war, are not for the primitive or the poor. Yet surely this war in Korea drives home the warnings that the white nations have already received with respect to their dealings with Asiatic and African peoples. If a little country such as the Communist Republic of North Korea can be made so formidable in so short a time, and can learn to use modern weapons so effectively, it



ON THE NAKTONG RIVER FRONT: A BREN-GUNNER OF THE BRITISH FORCES WITH HIS PUPPY BOB, WHICH HE BROUGHT WITH HIM FROM HONG KONG.

There are very few colonial possessions now left in Asia, though Russia still rules millions of subjects allen to her in blood, in religion, and in ideals. When we pause to consider ideas such as those outlined above our thoughts turn rather to Africa. In general, African brains are not as quick as Asiatic, but Africans have been trained for war and have recently been taught the use of weapons and equipment which at one time no one would have believed them capable of handling. It would be rash to take it for granted that with patience, allied to the higher educational standards achieved by some Africans at least, their proficiency could not be advanced considerably further still. European communities in Africa are in every case small in numbers by comparison with the surrounding natives. At the moment no unfriendly power could arm and equip a native army on a serious scale, but it would be unwise to regard that fact as proof of permanent security. We have seen sweeping changes in our own time. A generation ago, no one could have prophesied that China would be a Communist state, or that an American army would be fighting a campaign in Korea.

In these circumstances, leaving moral issues out of account, such white communities should consider the material risk of creating in the minds of natives alongside whom they live a sense of unjust treatment. This may not be dangerous at the moment, though I am inclined to think it is, but it might breed serious danger in the not-distant future. I am not supporting the rather sensational writers who seek to prove that the day of the white man is drawing to its close. If it is, the twilight will be a long one, and this generation has problems enough of its own. I am merely dealing with a particular branch of this problem which might become acute within the lifetime of present-day school-children. Hitherto, the general view, which seems sound on the face of it, has been that the more expensive and complex armaments became, the greater would be the disadvantages of primitive pe



BRITISH GROUND FORCES ENTER THE FIGHTING AREA IN KOREA: TROOPS OF THE BRITISH BRIGADE MOVING UP A KOREAN ROAD TO TAKE OVER POSITIONS FROM AMERICAN TROOPS DURING THE ALL-OUT NORTH KOREAN OFFENSIVE.



BRITISH GROUND FORCES REINFORCE U.S. TROOPS IN THE UNITED NATIONS RESISTANCE TO COMMUNIST AGGRESSION IN KOREA: BRITISH INFANTRYMEN (RIGHT) GREETED BY A U.S. BATTERY AS THEY MOVED UP TO TAKE OVER POSITIONS ON THE NAKTONG RIVER FRONT ON SEPTEMBER 4.

THE BRITISH TOMMY IN KOREA: TROOPS OF AN ENGLISH AND SCOTTISH BRIGADE REINFORCE THE U.S.

EDINBURGH AND THE THISTLE FOUNDATION: THE QUEEN AND PRINCESS MARGARET IN SCOTLAND.









- 1. ARRIVING AT THE KING'S THEATRE TO HEAR THE GLYNDEBOURNE "ARIADNE AUF NAXOS"; THE QUEEN AND PRINCESS MARGARET.
- 3. AFTER OPENING THE THISTLE FOUNDATION SETTLEMENT AT CRAIGMILLAR; THE QUEEN ADMIRING A SIX-MONTHS OLD BABY.

During their visit to Edinburgh from September 3-7, the Queen and Princess Margaret attended Festival performances and fulfilled numerous engagements. On Sept-

- 2. THE QUEEN AND PRINCESS MARGARET AT THE MILITARY TATTOO ON THE CASTLE ESPLANADE ON SEPTEMBER 5.
- 4. THE QUEEN AT THE DOVECOTE STUDIO, CORSTORPHINE, WITH PRINCESS MARGARET.

ember 5 Her Majesty opened the Thistle Foundation settlement at Craigmillar and laid the stone of the Chapel.





(TOP) ATTENDED BY 30,000 PEOPLE: THE BRAEMAR GATHERING; A GENERAL VIEW OF THE SCENE IN PRINCESS ROYAL PARK ON SEPTEMBER 7.

(BOTTOM) PAUSING TO LOOK AT A MASSIVE CABER: THEIR MAJESTIES THE KING AND QUEEN, AND PRINCE MICHAEL OF KENT (CENTRE RIGHT) AT BRAEMAR.

A ROYAL OCCASION: THEIR MAJESTIES THE KING AND QUEEN AT A MEMORABLE BRAEMAR GATHERING.





(TOP.) THE CLOSING CEREMONY OF THE FOURTH EDINBURGH FESTIVAL: A FIREWORKS DISPLAY IN PROGRESS FROM THE CASTLE ON SEPTEMBER 9.

BOTTOM.) ACCOMPANIED BY CANNON FIRED FROM THE BATTLEMENTS OF EDINBURGH CASTLE: HANDEL'S "MUSIC FOR THE ROYAL FIREWORKS" CONDUCTED BY SIR THOMAS BEECHAM.

CLOSING WITH FIREWORKS AND THE ROAR OF CANNON: THE FOURTH EDINBURGH FESTIVAL.

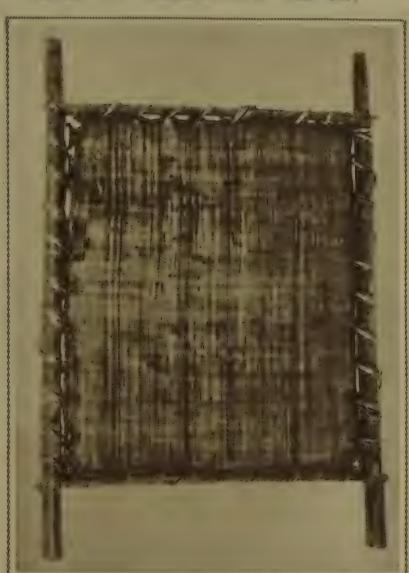
THE OLDEST KNOWN PAPER: FRAGMENTS DATING FROM THE EASTERN HAN PERIOD (A.D. 25-220). ALTHOUGH VERY ANCIENT THIS PAPER IS NOT CONTEMPORARY WITH TS'AI LUN, ACCREDITED INVENTOR OF PAPER IN σ , A.D. 105. (British Museum.)

The years she grave accessed the second of t

MANUSCRIPTS FROM THE DAWN OF PAPER HISTORY: FRAGMENTS, DATING FROM C. A.D. 150, FOUND IN 1907 BY SIR AUREL STEIN IN THE RUINS OF THE GREAT WALL OF CHINA. (British Museum.)

The importance of paper was brought home to everyone during the war, when shortage of it deprived us of reading matter and hampered us in a thousand ways. Paper is not only a luxury and a convenience; it is man's passport from savagery to civilisation, for without it the accumulated knowledge of the ages could not have been conveniently recorded. Its long and romantic history has been traced by Dr. Dard Hunter in his book, "Paper Making: the History and Technique of

THE WORLD'S MOST IMPORTANT MATERIAL—PAPER—ITS ORIGINS AND HISTORY.



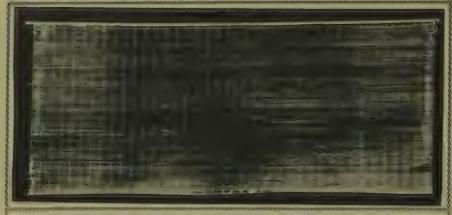
THE BASIC INVENTION IN PAPER-MAKING: A BAMBOO FRAME SUPPORTING A SQUARE OF CLOSELY-WOVEN CLOTH, PROBABLY SIMILAR TO THE MOULD USED BY TS'AI LUN TO LIFT BEATEN FIBRES FROM WATER.



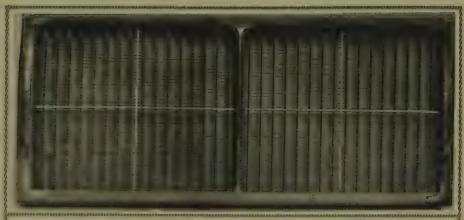
THE WRITING MATERIAL USED BY THE EGYPTIANS BEFORE THE INVENTION OF PAPER: PAPYRUS, WHICH HAS NO RELATION TO PAPER, BEING A LAMINATED MATERIAL BUILT UP BY PASTING TOGETHER THIN SLICES OF PLANT STALKS.

an Ancient Craft," while the photographs which appear on this and the following pages were published in Natural History, the Magazine of the American Museum of Natural History, together with an article from his pen. Paper was invented in China by Ts'ai-Lun, probably c. A.D. 105. From China it found its way into Central Asia and Persia. From Samarkand it spread to Bagdad and Damascus, Egypt and Morocco, finally, after nearly 500 years, reaching Europe.

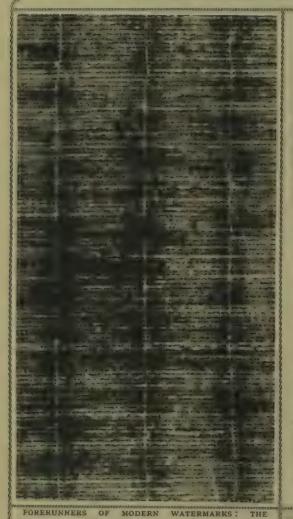
MILESTONES IN THE STORY OF PAPER-MAKING: IN THE ORIENT AND OCCIDENT.



"LAID" BAMBOO MOULD FROM TONKIN, INDO-CHINA, UPON WHICH PAPER IS FORMED: THE IMPRESSIONS OF THE BAMBOO STRIPS AND THE LACINGS OF HAIR MAY BE DETECTED IN THE EARLIEST KNOWN PAPER.



MADE ON THE SAME SYSTEM AS THE CHINESE MOULDS: A MODERN MOULD FOR MAKING EIGHT SHEETS OF PAPER AT ONE TIME. AS BAMBOO WAS NOT OBTAINABLE, THE EARLIEST EUROPEAN MOULDS WERE OF WIRE.



DIVIDED WITH STRIPS OF LEATHER SO THAT THREE SHEETS CAN BE FORMED AT THE SAME TIME: AN EXAMPLE OF THE ORIGINAL "LAID" PAPER MOULD OF THIN STRIPS OF BAMBOO LACED TOGETHER WITH HAIR.

PAPER is defined by Noah Webster as "a substance made in the form of thin sheets or leaves from rags, straw, bark, wood or other fibrous material for various uses." "To be classed as true paper," writes Dr. Dard Hunter in his book, "Paper Making," "the thin sheets must be made from fibre that has been macerated until each individual fibrance is acceptable. thin sheets must be made from fibre that has been macerated until each individual filament is a separate unit; the fibres inter-mixed with water, and by the use of a sieve-like screen the fibres lifted from the water in the form of a thin stratum, the water draining through the small openings of the screen leaving a sheet of matted fibre upon the screen's surface." This was the original method, and to-day the most elaborate and efficient paper-making machine employs precisely the same principle. The Chinese scribes wrote with the stylus on strips of wood before the invention of paper, but the material was bulky and difficult to store. It was eventually superseded by woven material, especially after the invention of the hair writing-brush, and the Chinese made books and scrolls of silk. There was waste when these silk mss. were cut, and it was these discarded strips of silk that no doubt suggested to the it was these discarded strips of silk that no doubt suggested to the adroit and practical Chinese mind the possibilities of making paper. In arriving at the idea of macerating the waste silk fibres and felting them into sheets of paper, it is likely that the early Chinese craftsmen were aided by their knowledge of felt-making. In his book on the history



MILESTONE IN PAPER-MAKING: A MOULD FROM WHICH A SHEET OF PAPER CAN BE TAKEN WHILE MOIST, THUS ENABLING THE WORKER TO PRODUCE SHEETS WITHOUT PAUSE



AN ANCIENT PROCESS STILL WIDELY FOLLOWED: REMOVING THE PAPER AFTER DRYING IN RATTAN MOULDS. THESE LEAVE A WICKERWORK IMPRESSION OF RATTAN ON THE PAPER.

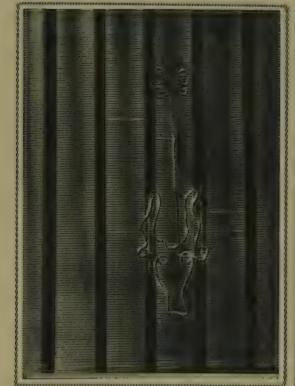


METHOD OF PAPER-MAKING FOLLOWED IN KWANGTUNG; THE MOULD, WITH THE THIN DEPOSIT OF FELTED FIBRES ADHERING TO ITS SURFACE, IS PLACED TO DRY IN THE SUN, AS THE EARLIEST PAPER-MAKERS DID.

Continued.]
of Paper-Making, Dr. Dard Hunter points out that the rapid development of calligraphy by archaic Chinese scholars, and their spontaneous adoption of the camel-hair brush and fluid pigment, were factors in the subsequent invention of paper, for they emphasise the necessity for finding a writing substance cheaper and more practical than woven textile. It was this urgent need for a totally new writing surface that inspired the Chinese eunuch Ts'ai Lun, in A.D. 105, to proclaim his

marvellous invention of true paper. With the advent of paper the art of calligraphy as originally conceived by T'sang Chieh, in B.C. 2700 had its real impetus, and the brush-written manner of recording history and setting down accounts was destined to supersede all other methods. It is strange that the invention of printing was so long delayed after the invention of paper. It was not till A.D. 770 that the first text printing upon paper was completed in Japan, though the conception was Chinese.

PAPER-MAKING DEVICES: MODERN, MEDIÆVAL AND NATURE'S OWN.



A FIFTEENTH-CENTURY MOULD, SHOWING THE WIRE WATERMARK SEWN TO THE SURFACE: IN EUROPE, WIRE REPLACED BAMBOO FOR PAPER-MAKING MOULDS.

Courtesy of the "Encyclopædia Britannica."



SHOWING THE WATERMARK IN PAPER OF THE FIFTEENTH CENTURY: THE LETTER "P," THE INITIAL OF PHILIP THE GOOD, OR PHILIP THE HARDY, WAS VERY USUAL IN EUROPE AT THIS PERIOD.



WITH LETTERING AND SYMBOLS AKIN TO THOSE OF THE 15TH CENTURY: A MODERN MOULD FOR MAKING PAPER, WITH A 19TH-CENTURY LIGHT-AND-SHADE WATERMARKING DEVICE Courtesy of the "Encyclopædia Britannica."



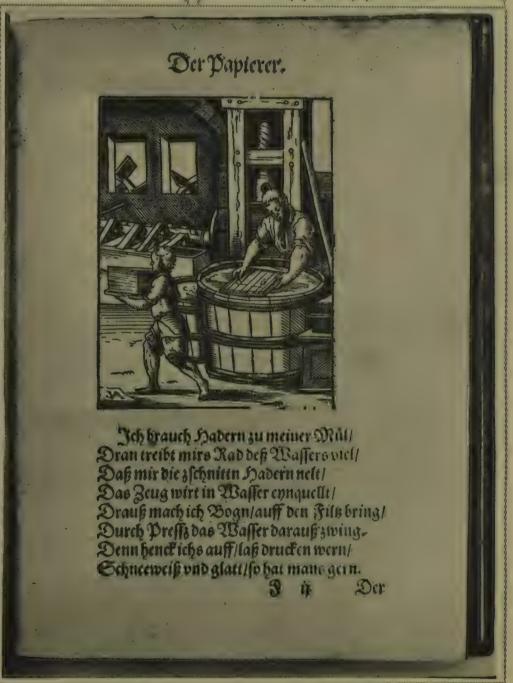
ON SOFT ABSORBENT
PAPER FROM CHINA,
TIBET, SIAM AND
MONGOLIA, MADE
SPECIALLY FOR
WRITING IN ORIENTAL
CALLIGRAPHY WITH
A.HAIR BRUSH: OLD
MANUSCRIPTS OF EXCEPTIONAL INTEREST.

NATURE'S OWN PAPERMAKING: A NEST OF
THE MARABUNTER
WASP (CHARTERGUS
SP.), WITH WALLS OF
A MATERIAL OF THE
CONSISTENCY OF
FRAGILE CARDBOARD.
(British Museum:
Natural History.)





MATERIAL WHICH LED THE FRENCH EIGHTEENTH-CENTURY SCIENTIST RÉAUMUR TO THE DISCOVERY OF MAKING PAPER FROM WOOD: MATERIAL MANUFACTURED BY THE WASP IN THE CONSTRUCTION OF ITS NEST.



THE EARLIEST ILLUSTRATION DEPICTING PAPER-MAKING IN EAST OR WEST, ENGRAVED BY JOST AMMAN (1539-1591), PUBLISHED 1568: THE CRAFTSMAN IS LIFTING THE FILM OF FLOATING FIBRES FROM THE WATER IN A MOULD, WHILE HIS APPRENTICE CARRIES OFF A STACK OF PAPER FOR DRYING.

"While almost 2000 years have elapsed since the invention of forming sheets of paper, the principle of the modus operandi remains almost identical," wrote Dr. Dard Hunter, in an article he contributed to the Magazine of the American Museum of Natural History. It is not known whether the craft was first introduced into Spain or Italy, but the fifst paper-making in Europe was accomplished in the twelfth or thirteenth century. Moulds of wire were used, as bamboo, from which the Oriental moulds were constructed, was unobtainable, but the form remained the same. The

Oriental makers with their rigid moulds, never used watermarks in the form of designs, but the pliable wire European moulds lent themselves to watermark devices. Owing to the demand for paper, rags from which to make it became very scarce, and in the early eighteenth century René Antoine Ferchault Réaumur, a French scientist, studied the paper-like substance made from wood by wasps; but it was not until 1765 that practical experiments were undertaken in making paper from wood—the substance which to-day furnishes the material for the great bulk of the paper in use.

PAPER-MANUFACTURE IN THE EAST: AND A UNIQUE KOREAN METHOD OF USE.



DR. DARD HUNTER, AUTHOR OF "PAPER MAKING, THE HISTORY AND TECHNIQUE OF AN ANCIENT CRAFT," AN AUTHORITY ON THE SUBJECT, AND A PAPER-MAKER HOLDING THE MOULD FOR THE MAKING OF THE TEMPLE PAPER OF SIAM.



MAKING PAPER IN INDIA: THE VATMAN SITS AT HIS WORK AND, WHILE MOULD AND VAT DIFFER FROM THOSE OF THE OCCIDENT, THE PRINCIPLE OF TECHNIQUE REMAINS THE SAME.



IN THE ORIENT, PAPER-MAKERS USE THE ANCIENT LEVER PRESS, ADDING STONES AS MORE PRESSURE IS DESIRED: SUCH PRIMITIVE PRESSES ARE IN USE EVEN IN THE LARGEST HAND-MADE-PAPER MILLS OF JAPAN.



DR. DARD HUNTER BETWEEN TWO KOREAN PAPER-MILL OWNERS: A PULT-GRINDING STONE WAS FORMERLY USED IN KOREA FOR THE MACERATION OF PAPER-MAKING MATERIAL.



FORMING SHEETS OF PAPER ALONG THE STREAM IN THE PAPER VILLAGE OF OMPEI, CENTRAL KOREA. PAPER-MAKING WAS INTRODUCED INTO JAPAN BY WAY OF KOREA IN THE SEVENTH CENTURY.



HEAVY PAPER-MAKING IN KOREA: IN KOREAN HOUSES PAPER PLAYS A UNIQUE PART, FOR, IN PLACE OF THE GRASS MATS USED ON THE FLOOR OF JAPANESE HOUSES, KOREANS EMPLOY THICK OILED PAPER.

No paper exists dating from the first few years of its inception, so the form of the original moulds can only be surmised. It is likely that the first mould, as invented and used by Ts'ai Lun, was merely a square of coarsely woven cloth held in a four-sided bamboo frame. After the moisture had evaporated, the sheet of paper, impressed with the warp and woof of the mould cloth, just as watermarks are impressed on paper to-day, could be stripped from the mould. This was the original "wove" mould, but as the paper could not be removed until

dry, a very large number of moulds were needed. The invention of the rigid transfer mould, from which paper could be taken while moist, was most important. These moulds were made of thin strips of rounded bamboo laid parallel and laced together with hair. The resulting indentations constitute the original "laid" watermarks. It may interest readers to know that the paper on which The Illustrated London News is printed is largely made from esparto grass. This was not available during the war, but the manufacturers did a good job with straw.



DESIGNED TO ENABLE AIRMEN TO PARACHUTE FROM GREAT ALTITUDES IN SAFETY: THE IRVIN AUTOMATIC RELEASE GEAR

The new Irvin fully-automatic safety parachute opening device which has been demonstrated at Stansted Aerodrome, in Essex, is designed to eliminate the human uncertainty of when to pull the rip-cord after an airman jumps, or is ejected, from an aircraft in distress and also to solve the problem of how to bring down in safety men injured by accident or by enemy action who are unable to operate the manual type of parachute. Previously the parachute of an injured man was opened by means of a static line attached to the aircraft, but should this be flying at a great height, the parachute opened in a few seconds and the injured man made a slow descent through the rarefied atmosphere and ran the risk of suffocation before he reached the breathable atmosphere. In a free fall, however, the airman falls at a rate of 180-120 m.p.h., compared with the 1000 ft. per minute when the parachute

is open, and therefore takes only two or three minutes to pass through the rarefied air. The new automatic release consists of a small aluminium box containing clockwork mechanism, primarily for use when the airman leaves the aircraft below 10,000 ft., which opens the parachute approximately three seconds after he jumps. The box also contains a barometric capsule (or small altimeter) which comes into use when the jump is made from greater altitudes. In this case the airman makes a free fall through the belt of rarefied atmosphere in which modern fighters and bombers now operate and, when he reaches 10,000 ft. or so above ground, the barometric capsule operates the clock mechanism and three seconds later this releases a coil-spring which in turn pulls the rip-coid and opens the parachute. The release gear can also be operated manually if required.

BLOWING WHITE-HOT GLASS AND PULLING IT LIKE LAMBENT CANDY: SKILLED WORKERS INTENT ON OUR EXPORT DRIVE.



MAKING THERMOMETER TUBING-A PROCESS WHICH SUGGESTS PULLING CANDY:



A LAMBENT ROPE OF WHITE-HOT GLASS AND ENAMEL BEING PULLED AND TWISTED WITH PRACTISED SKILL BY GLASS-WORKERS MOVING AWAY FROM EACH OTHER.



THE FLAT FRUIT-DISH ASSUMES ITS FORM UNDER THE HANDS OF THE GLASS-WORKER,
WHO IS SHAPING IT WITH A "BOARD" BY THE TRADITIONAL PROCESS.



THE CLASS-BLOWER AT WORK: HE IS SHAPING THE BOWL OF A HAND-MADE WINE-GLASS.



ONE OF THE STAGES IN THE MAKING OF A FLAT FRUIT-DISM: THE PARTLY SHAPED OBJECT HAS BEEN TRANSFERRED TO A "PUNTY" IRON, AND THE TOP IS DEING SHEARED PRIOR TO OPENING IT OUT.



HOW THE FOOT OF A HAND-MADE WINE-GLASS IS FORMED: THE GLASS-WORKER IS SHOWN DROPPING A "BIT" OF MOLTEN GLASS ON TO THE STEM.



INSPECTION OF THE FINISHED GLASSES AGAINST THE VIEWING SCREEN: ANY GLASSES THAT ARE OUT OF ALIGNMENT OR HAVE FLAWS OR BUBBLES ARE REJECTED.



THE INITIAL OPERATION IN THE MAKING OF A FRUIT-DISH:
BLOWING THE WHITE-HOT "BUBBLE" FROM WHICH IT WILL BE SHAPED.



THE FINAL OPERATION IN MAKING A MAND-MADE WINE-GLASS: THE BOWL IS BEING OPENED OUT SKILFULLY, WHILE THE FOOT IS HELD FIRMLY BY MEANS OF A CLAMP.

The high quality of British goods and the consequent prestige which they enjoy are the steps which will lead us out of the Economic Slough of Despond, though, like Christian, we are heavily burdened. This heartening truth was insisted on in the Working Party report on the hand-blown domestic glass industry, published on Dec. 22, 1947, and referred to in our issue of December 27, in connection with

photographs of the processes used in the production of hand-blown lead-crystal glass. On these pages we give further illustrations of glass-making as carried on by an old-setablished British firm. Glass-making was originally introduced to this country by wandering Venetians. In 1975 Quene Elizabeth granted a patent or monopoly to Jacob Verzellnin, and about 1675 George Ravenscroft, with the aid of an Italian.

evolved the famous English flint-glass. Five years later, the Whitefriars Factory of John Powell and Sons (now of Wealdstone) was founded in London, and many of the skilled glass-blowers of to-43ay are descendant of seventeenth-eneutry craftsmen. The method of manufacture alters little with the centuries, nor does the language of the workshops lose its pleturesque phraseology. The chief craftsman is still

"the gaffer." He is "head of the chair," with a "servitor "to assist him. High-speed skill is the keynote of plass-making. From the moment the white-hot molten glass is taken from the furnace on the blowing "tron" until the article is complete, every second counts. Our photographs show glass-blowers working in exactly the same way as their forbears did, using similar "I no took," some of which are 200 years old.



A BRITISH OUTPOST IN THE FAR EAST WHOSE BOUNDARIES ARE CONTIGUOUS TO COMMUNIST CHINA: A PANORAMIC MAP OF HONG KONG AND THE HINTERLAND, SHOWING THE CANTON RIVER ESTUARY.

Since last October the frontier of the Crown Colony of Hong Kong has been manned by the Hong Kong police supported by British troops, while on the other side of the border Chinese Communist troops have been consolidating their position in the territories which they took over with the capture of Consistent Openits

. Kwangsi Province.
. Kweilin.
. Delta Rice Paddies.
. Canton.
. Canton River.
. Rice Paddies.
. East River.
. Kwangtung Province.

9. Hunan Province.
10. Communist-held areas.
11. Kiangsi Province.
12. Sheklung.
13. Canton-Kowloon Railroad
14. Fukken Province.
15. Walyeung.

17. British Boundary,
18. Lantau Island.
19. South China Sea.
20. Deep Bay,
21. West Lamma Channel,
22. The New Territories.
23. British Fortifications.
24. The Peak.

25. East Lamma Channel. 26. Lamma Island. 27. Victoria Harbour. 28. Hong Kong. 29. Kowloon. 30. Repulse Bay. 31. Kaitak Airfield. 32. Stanley Fort. Continued.]

Conti



THE STARTING-POINT AND ARRIVAL PLACE FOR AIR TRAVELLERS FROM THE ENDS OF THE EARTH: LONDON AIRPORT, VIEWED FROM THE AIR, SHOWNG THE GENERAL LAYOUT.

London Airport, formerly Heath Row, was opened in 1946 and in our issue of May 25 that year we gave a drawing by G. H. Davis showing the design for the eventual layout, in which the offices and administrative buildings will be in the centre connected with the Bath Road (bottom right-hand corner) by a tunnel. Temporary buildings are still in use, but they offer travellers every possible

amenity. Aircraft of twenty different lines use London Airport, including B.O.A.C. (who have now moved their maintenance base there from Croydon); Pan-American (whose Stratocruisers can be accommodated in a hangar there), and Air Italia, Air France, K.L.M., and so forth. The Brabazon recently landed there. Three runways have been completed.



THE "NEVER-STOP" NAVY: SHIPS OF THE UNITED STATES SIXTH FLEET REFUELLING AND REPLENISHING STORES WHILE STEAMING AT TWELVE KNOTS IN THE MEDITERRANEAN.

During the last war great advances were made in the technique of keeping a fleet at sea for long periods, particularly in the Pacific. Here we show three ships of the U.S. Navy refuelling and replenishing stores from a veritable floating naval base while steaming at 12 knots in the Mediterranean.



HOW A NEW SHIP IS TESTED FOR SPEED: THE "MEASURED MILE" OF THE ISLE OF ARRAN.

Before a new ship is put upon the stocks, a model of the vessel, made exactly to scale, is thoroughly tested in order to satisfy the builders that in their "contract" with the shipping line they can guarantee that the vessel will have all the qualities laid down in the owner's architects' specification. After the ship has been launched there yet remains that all-important day when the new ship—whether a slow and humble tramp steamer or a large liner, a destroyer or a battleship—must be put through her speed trials on the measured mile. These measured miles are in reality sea miles (6080 ft.) and there are several of these round our coast, the most famous being in the Firth of Clyde, off the isle of Arran. Here the conditions are ideal—the "mile" is sheltered by surrounding land, the currents are known and regular, and there is deep water close inshore. On the shores of Arran two sea miles are marked off by white posts that show up well against the timbered hillside with the lofty mountains topped by Goat Fell behind.

The ship makes her run in both directions and in some cases four runs are made. Representatives of the builders and the ship's owners station themselves on the wing of the bridge with stop-watches calibrated and verified against the ship's chronometer. As the ship, having worked up to full speed, comes up to the outer posts, these officials start their stop-watches as soon as the two posts are in alignment. The ship steams on a straight course and when the end posts are reached and coincide, the watches are stopped. The ship turns and makes a second run in the reverse direction, when the procedure is repeated. The results are compared with reference tables which list speeds corresponding to times over the course to the nearest fifth of a second to give the final figure. Meanwhile, in the engine-rooms and elsewhere in the machine spaces, records have been compiled with equal care and these are collected to provide data for the compilation of power and speed curves for reference when the ship goes into service.

DRAWN BY OUR SPECIAL ARTIST, G. H. DAVIS, WITH THE ASSISTANCE OF THE ORIENT STEAM NAVIGATION CO., LTD.

(LEFT.) FIG. 7. ALSO FOUND IN THE RODEN-KIRCHE SARCOPHAGUS:

MINIATURE STATUETTES

OF FROGS, A LIZARD,

AND TWO YOKE-OXEN, ABOUT 11 INS. LONG,

WHICH FITTED INTO A

NOW-SHATTERED CART.

BEAUTY CULTURE AND FARMING IN FOURTH CENTURY GERMANY: ROMAN SARCOPHAGUS FINDS NEAR BONN.





FIG. 3. DETAIL OF FIG. 5: THE INSET ENGRAVED PICTURE, SHOWING, ABOVE, THE PUNISHMENT OF MARSYAS; AND, BELOW, APOLLO SACRIFICING AT AN ALTAR. ABOUT 5 INS. IN DIAMETER.



FIG. I. FROM A FOURTH-CENTURY A.D. ROMAN

FOUND DURING THE WAR NEAR DUREN: A LEATHER CASE, WITH SILVER-GILT FILIGREE DECORATION, AND TWO SMALL KNIVES (FRONT, SIDE AND BACK VIEWS).

(ABOVE).
FIG. 2. FROM THE SAME
SARCOPHAGUS AS FIG. 1:
AN AMBER DISTAFF,
ABOUT 7½ INS. LONG,
WITH A BOWL-SHAPED
SUMMIT. THE INDIVIDUAL PIECES OF
AMBER ARE MOUNTED
ON A METAL ROD.

(RIGHT.) FIG. 5. AN EXTREMELY BEAUTIFUL GLASS BOWL OF ABOUT A.D.370, FROM A SAR-COPHAGUS FOUND IN 1942 AT RODENKIRCHE. PFOBABLY FROM THE ROMAN GLASS FACTORIES OF COLOGNE. ABOUT 91 INS. IN DIAMETER. (DETAIL IN FIG. 3.)



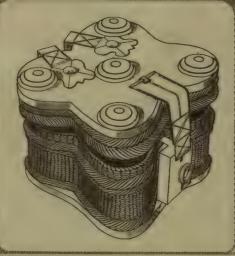


FIG. 4 (ABOVE) AND FIG. 6
(LEFT). A VANITY-BAG OF
1600 YEARS AGO: A
HEXAGONAL BASKET
(WITH RECONSTRUCTION
BELOW) FOUND IN A
WOMAN'S SARCOPHAGUS,
AND CONTAINING THE
SHATTERED REMAINS OF
PERFUME AND COSMETIC
BOTTLES.

SARCOPHAGUS

IN May of this year, the Bonn Museum, which has usually been regarded as Germany's

foremost museum with regard to Romano-German and Frankish art, was to be reopened. We reproduce on this page some photographs by the present

custodian, Herr W. Haberey, of some interesting objects acquired by the Museum during the war years. In 1943, excavations at Dorweiler bei Duren in the Rhineland revealed two Roman sarcophagiof the fourth century A.D. One had been pillaged in ancient times, but the other contained the skeleton of a young woman and a remarkable number of interesting objects, some of which are shown in Figs. 1, 2, 4 and 5. Among the toilet objects were two vanity-cases, one square, the other (Figs. 4 and 5) hexagonal, with lock and bronze key made to carry on a finger-ring.



FIG. 9. MORE FARMING AND GARDENING MINIATURES FROM THE RODENKIRCHE SARCO-PHAGUS, WAIICH INCLUDE HATCHETS, MATTOCKS, A HOE, A SICKLE, SHEEP-SHEARS, A LADLE AND A FORK—PRESENTING A VIVID PICTURE OF FOURTH-CENTURY GERMAN FARMING.



FIG. 8. ROMANO-GERMAN FARM IMPLEMENTS OF 1600 YEARS AGO: MINIATURES FOUND IN THE RODENKIECHE SARCOPHAGUS, INCLUDING LADDER, HARROW, PLOUGH, WINNOWING-FAN, DOUBLE YOKE, RAKE AND FORK.

This contained fragments of cosmetic bottles with cork stoppers. The remaining objects (Figs. 3, 6, 7, 8 and 9) were found in a sarcophagus of about A.D. 370, found at Rodenkirche, containing coins of the Emperor Gratianus, the remarkable Marsyas bowl (Figs. 3 and 5), and a collection of miniatures which throw a vivid light on the farming and, indeed, the gardening practice of the time (Figs. 7, 8 and 9).

OLD MASTERS IN AMERICA: IMPORTANT GIFTS TO THE NATIONAL GALLERY, WASHINGTON.





"A PRINCE OF SAXONY"; BY LUCAS CRANACH, THE ELDER (1472-1553). GERMAN SCHOOL. [BOOTH COLLECTION.]



"PORTRAIT OF A NOBLEMAN"; BY NICOLAUS KREMER (D. 1553). GERMAN SCHOOL. [FROM THE RALPH AND MARY BOOTH COLLECTION.]



"HENRI II. DE LORRAINE, DUC DE GUISE"; BY SIR ANTHONY VAN DYCK. (1599-1641.) [PRESENTED IN 1947 BY MR. CORNELIUS VANDERBILT WHITNEY.]

This picture, which is in excellent condition, "offers a remarkable display of the brilliance of Van Dyck's mature technique," writes Mr. John Walker, Chief Curator of the Washington Gallery. The sitter, formerly believed to be William Villiers, Viscount Grandison, is now identified as Henri II. de Lorraine, Duc de Guise. (1614-1664.) He became Archbishop of Rheims at the age of fifteen, but abandoned the ecclesiastical career on inheriting the Dukedom. He was notorious for his gallantries and political adventures. At the end of the seventeenth century the portrait is believed to have belonged to François-Roger de Gaignières, a great French collector closely connected with the Guise family, who occupied their Paris residence, the Hôtel Guise.



"PORTRAIT OF A YOUTH"; BY GIOVANNI ANTONIO BOLTRAFFIO (1467-1516). MILANESE SCHOOL. [FROM THE RALPH AND MARY BOOTH COLLECTION.]



"THE MAYOR OF MEMMINGEN"; BY BERNARD STRIGEL (c. 1460-61-1528). GERMAN SCHOOL. [BOOTH COLLECTION.]



"A PRINCESS OF SAXONY"; BY LUCAS CRANACH, THE FLDER (1472-1553). GERMAN SCHOOL. [BOOTH COLLECTION.]



"THE WIFE OF THE MAYOR OF MEMMINGEN"; BY BERNHARD STRIGEL (c. 1460-61-1528), GERMAN SCHOOL, [FROM THE RALPH AND MARY BOOTH COLLECTION.]

On this page we reproduce important acquisitions for the National Gallery of Art, Washington, D.C. The Van Dyck was presented by Mr. Cornelius Vanderbilt Whitney; and the other photographs show seven of the eight works by Italian and German artists of the fifteenth and sixteenth century from the collection formed by the late Ralph Harman Booth (President of the Arts Commission of the City of Detroit and for two years United

States Minister to Denmark) and his wife, which Mrs. Booth has presented. This was her second important gift to the Gallery. The Bellini "Madonna and Child" is famous. It is depicted in the Brussels "Interior of the Archduke Leopold Wilhelm's Gallery," by David Teniers, the Younger. The Boltraffio "Portrait of a Youth" was one of the pictures sent from America for exhibition at the Italian Art Exhibition in London in 1930.





BEFORE THE EMPLOYMENT OF THE CAMEL IN PERSIAN TIMES, THE DONKEY WAS THE ANCIENT EGYPTIL MEANS OF DESERT TRANSPORT: LADEN DONKEYS, A RELIEF IN LIMESTONE. (C. 2500 B.C.)

THAT COMETH TO CARRY AWAY THE MAGIC WORDS ": A FRIEZE OF THREE, BEING A VIGNETTE FROM THE BOOK OF THE DEAD, ACCOMPANYING A SPELL. DETAIL FROM A PAPYRUS. (c. 332-330 B.C.)



FAVOURITE PET WITH THE ANCIENT EGYPTIANS IN PAINTED IVORY, ABOUT 41 INS. HIGH. (c. 1375 B.C.



AN ARTIST'S SKETCH OF DELIGHTFUL VIVACITY: A CALF, DRAWN IN RED INK ON A FRAGMENT OF LIMESTONE, FROM A TOMB AT THEBES. (c, 600 B.C.)



THE EGYPTIANS PREQUENTLY PITTED BULLS OF RAMS FOR SPORT, AS SHOWN IN THIS RED AND BLACK INK SKETCH ON A LIMESTONE FRAGMENT. (c. 1567-1000 B.C.



A CHARIOTEER'S WHIP-HANDLE OF EXTREME ELEGANCE, SHOWING A CALLOPING HORSE, CARVED FROM IVORY AND PAINTED. GENERALLY EGYPTIAN HORSES WERE DRIVEN, NOT RIDDEN. (C. 1375 B.C.)

The sacred nature of many animals in the life of Ancient Egypt and the strange beast-headed gods of the Egyptian pantheon have perhaps tended to create a belief that animals to the Egyptians appeared in a quite different light from that in which they appear to us. The illustrations on these pages, however, do much to correct this belief, and as Dorothy W. Phillips writes in a publication prepared

A RAM'S HEAD IN LIMESTONE—USED AS A MODEL BY SCULPTORS WORKING ON TOMB AND TEMPLE WALLS IN THE SAÏTK-PTOLEMAIC PERIOD, (c. 663-30 B.c.)

for the Metropolitan Museum of Art, New York: "In ancient Egypt animals for the metropoluta museum of Art, New York: 'In ancient Egypt animals played an active and very vital rôle in the everyday business of life. There was nothing mysterious about it. They were bred for food or for labour, they gave pleasure as pets and companions, they were the dangerous and clusive quarry of the huntsman—they were of paramount importance in the economy and life Photographs Reproduced by Courtesy of

ANIMAL LIFE IN ANCIENT EGYPT: PETS, DOMESTIC ANIMALS AND GAME-SEEN THROUGH THE EYES OF EGYPTIAN ARTISTS.



(SEE ALSO RIGHT) SEEMS TO BE PORTRAYED WITH

SHOWING THE SAME FRELING AS THE CRUDER EXAMPLE (LEFT). (c 1991 1778 B.C.)





LEVER MOVES THE LOWER JAW. (c. 1375 B.C.)



OF A HORSE AND GROOM. THE HORSE WAS INTRO-DUCED INTO THE COUNTRY IN THE SEVENTEENTH CENTURY B.C. (c. 1550 B.C.)



FOUND, LIKE THE SKETCH OF THE CALF, IN THE TOMB AT THEBES OF NYSU-PA-KA-SHUTY



III. KEPT LIONS AS PETS: THIS VIGOR-OUS INK SKETCH IS FROM THE SAME SOURCE AS THE CALF (c. 600 B.C.)



TO THE EGYPTIANS THE CROCODILE WAS A BEAST TO BE PRARED AND PROPITIATED : THIS ENGRAVED SKETCH WAS SCRATCHED ON A LIMESTONE FRAGMENT. (c. 600 B.C.)



SACRED TO THOT, THE GOD OF WISDOM: THE DOG-FACED BABOON SHOWN IN A SCULPTURED SKETCH FROM THE VALLEY OF THE KINGS. (c. 1320-1090 B.C.)

by the graceful form and lithe movement of animals. They were not bound by conventional traditions to the same extent in depleting scenes of animal life as they were in representing the more formal activities of men." The rough sketches which we include-hippopotamus, calf, horse and lion among them-in particular The Metropolitan Museum of Art, New York.

reveal an especial raciness and vigour of style. Many animals were kept as pets, reveal an especial reanness and vigour of style. Many animals were kept as pro-herds of cattle and even antelope were maintained and, after Hyksos times, Egypt became a great horse-breeding country—a fact referred to in the Bible—although in general the Egyptians seem to have driven and not ridden them, except as a matter of convenience during their care and training.

A MODERN MONUMENTAL EFFIGY: KENNINGTON'S LAWRENCE OF ARABIA.





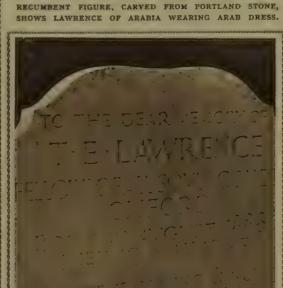
SHOWING THE REPRESENTATION OF THE ARAB DAGGER AND SHEATH, GIFT OF KING FAISAL: ERIC KENNINGTON'S FINE MONUMENTAL EFFIGY OF LAWRENCE OF ARABIA.



SYMBOLISING LAWRENCE'S LOVE OF ARCHÆOLOGY: DETAIL OF THE FIGURE, BY ERIC KENNINGTON, SHOWING THE HITTITE CARVING AGAINST WHICH THE FEET ARE RESTING.



THE ANCIENT CHURCH WHICH CONTAINS ERIC KENNINGTON'S MEMORIAL EFFIGY: ST. MARTIN'S, WAREHAM, DORSET, WHICH LAWRENCE VISITED SEVERAL TIMES.



THE SANDALLED FEET OF THE EFFIGY: KENNINGTON'S

ERECTED OVER HIS GRAVE IN THE CEMETERY OF MORETON, WHERE HIS BODY RESTS: LAWRENCE'S TOMB-STONE, ALSO CARVED BY ERIC KENNINGTON.



DETAIL OF KENNINGTON'S EFFIGY OF HIS PRIEND LAWRENCE OF ARABIA: SHOWN WITH HIS HEAD DRAPED IN THE KAFFFEH OF AN ARAB CHIEF.

English sculptors have, since the earliest times, produced monumental memorials and tomb effigies of exceptional beauty, power and pathos. On February 12 and March 19 last year we reproduced examples of fine ancient monuments from Gloucester Cathedral and Cirencester Church. On this page we give photographs of a modern effigy of a great Englishman, Lawrence of Arabia (1888-1935), famous for his heroic exploits as the organiser and inspirer of Arab guerilla warfare against the Turks during the 1914-18 war. Lawrence, who was an archæologist and a scholar, as well as a leader of men, was the author of that great book of the First World War, "The Seven Pillars of Wisdom." He was elected a Research Fellow of All Souls, Oxford, in 1919, and resided there for a year, but without entering much into College



THE HEAD OF THE EFFIGY, RESTING ON A CAMEL SADDLE; AND (L.) MALORY'S "MORTE D'ARTHUR," "THE GREEK ANTHOLOGY" AND "THE OXFORD BOOK OF VERSE."

life. He was recalled to the Colonial Office in 1921 to advise on Arab affairs, but he disagreed with the Allied policy towards the Arabs, and left the Government service in 1922, abjuring all official rank and decorations, and enlisting in the R.A.F. under the name of Shaw. In 1935 he was killed in a motor-bicycle accident. Eric Kennington, the painter and sculptor, cut his effigy of T. E. Lawrence from a block of Portland stone without the aid of any mechanical tools. Lawrence is represented in Arab dress, holding an Arab dagger in a sheath. His head rests on a camel saddle, and by him lie representations of the books which accompanied him on all his journeys, Malory's "Morte d'Arthur," "The Greek Anthology" and "The Oxford Book of Verse"; while a camel whip is depicted by his side.



A CAT WITH A REMARKABLE ALPINE EXPLOIT TO HIS CREDIT: THE 10 MONTHS OLD BLACK-AND-WHITE KITTEN WHICH CLIMBED THE MATTERHORN.

A kitten belonging to the Hotel Belvedere (10,820 ft.), on the Hörnli Ridge set out one morning to-follow Alpinists starting to climb the Matterhorn. Soon out-distanced, he spent his first night in the Solway Hut (12,556 ft.), and the second in a couloir above the shoulder. Having negotiated the Ropes Slabs, and the Roof he joined the party for a meal at the summit (14,780 ft.). The guide who was leading them down the Italian side, took the cat in his rucksack to the

Rifugio Principe Amedeo di Savoia (12,763 ft.), as he realised that cats descend with more difficulty than they mount. We have no information as to why the cat undertook this dangerous climb, but it may well have been inspired by the desire to qualify for the Dickin Medal, universally recognised as the Animals V.C., which as recorded on another page, bears the name of the founder of the People's Dispensary for Sick Animals.



WORLD SCIENCE.



FROM its winter quarters in South Africa every spring the swift travels north to nest in Europe, and during the summer months it may be found in that continent from the shores of the Mediterranean to Lapland, Finland, and even Siberia. In the northernmost portions of that immense area very remarkable phenomena in connection with its breeding habits have recently come to light. For some time past ornithologists in Finland have noticed that before the advent of a cyclonic storm all the adult swifts disappear. The reason for this exodus is pretty obvious, for during such weather heavy rain beats down all insect life and the birds' food in consequence becomes





climbing by using its bill, feet and (to a minor degree) its wings; a three-day-old swift—the arrangement of the toes should be compared with those of an adult (see drawing above). From a drawing by Collingwood Ingram.

temporarily unobtainable. The retreating swifts are always observed flying to some unknown destination in a southerly or south-westerly direction. As, however, vast flocks of swifts occasionally appear in localities where they do not breed, sometimes hundreds of miles to the south of Finland, it may be presumed that these are the same birds. Because their irregular appearances generally precede tempestuous weather, the inhabitants of those localities call the birds

"storm-" or "rain-swallows."

These pseudo-migrations, or mid-summer movements, are invariably connected with the approach of a meteorological disturbance. It has been proved that even while a threatening cyclone is still as far as 800 miles away, the swifts will commence their withdrawal, always flying against the wind in a more or less southerly direction. In territories lying behindthat is to say, to the north of the core of the cyclonethe birds will either remain where they are or will only move a short distance northwards, in which case they will also have to fly against the wind, which means that they will be taking an exactly opposite route to those departing from the south side of the cyclone.

As these temporary movements frequently occupy several days, and usually occur in the middle of the breeding season, we may well wonder what happens to the nestlings that are left behind? Do these abandoned fledgelings starve to death or do they perish from cold? We know that if such a catastrophe occurred to a passerine species the helpless young would die in the matter of hours. How, then, do the nestling swifts, deserted perhaps for five or six days, or even longer, manage to survive without either food or warmth?

This question has recently been answered by a Finnish scientist named J. Koskimies. By a series

THE PHENOMENON OF SPORADIC HIBERNATION IN NESTLING SWIFTS. By Collingwood Ingram. BASED ON A LECTURE DELIVERED BY DR. M. D. UDVARDY AT UPSALA ON JUNE 15, 1950.

of interesting experiments he has discovered that whilst the body of an adult swift maintains a more or less constant temperature of about 104 degs. F., that of the young bird (which is normally several degrees lower) responds to, and is in fact, largely controlled by external conditions. Consequently, in the absence of a brooding parent, the temperature of the nestling will automatically fall to approximately that of the surrounding atmosphere. Should this be reduced to, let us say, 42 degs. F. or 43 degs. F., as would probably be the case in the cyclonic weather referred to, the chilled nestling quickly sinks into a semi-comatose condition and will start breathing at a very slow rate: in other words, its physiological

ately less weight and its retained activity, dies under similar conditions in only four or five days. Although the weight of a nestling swift necessarily depends upon its age, when nearly full-grown it will be appreciably heavier than its parents. But, apart from this initial advantage, Koskimies has shown that the young bird does not succumb from starvation until it has consumed 50 per cent. of its own weight, whereas the adult will die after losing only a third of it.

From what has been said it is clear that if swifts did not retreat before an oncoming storm it would be impossible for them to breed as far north as they do. As the fledgeling period lasts approximately six weeks (which is exceptionally long for a bird of its size), it would indeed be surprising if in those high latitudes there was not at least one such spell of bad weather during that time. With the return of normally warm conditions, the young regain their vitality, and the adults, having meanwhile reappeared, resume once more their parental duties.



THE NEST ITSELF IS A SHALLOW, SLIGHTLY HOLLOWED PLATFORM OF CEMENTED SALIVA IN WHICH A CLUTCH OF ONLY TWO OR THREE UNSPOTTED WHITE FGGS IS NORMALLY LAID": A SWIFT WITH HER YOUNG. [Photograph by C. Eric Palmar.]

condition becomes practically identical with that of a hibernating creature during its winter sleep-for example, bats, lizards and hedgehogs. Naturally, when in this state an absolute minimum of bodily fuel is consumed, and this fact, added to a previous accretion of weight, renders the nestling swift capable of surviving without food or parental warmth for periods up to nine or ten days. On the other hand, an adult swift, with its higher temperature, proportion-



AWAY FROM "WHAT MIGHT BE REASONABLY REGARDED AS THEIR NATURAL ELEMENT": A SWIFT ENGAGED IN NIDIFICATION, Reproduced from "Birds in Nature" by R. Bowdler Sharpe, F.L.S.

Although in England swifts usually nest under the eaves of houses, in church towers or in other buildings, where these are either few or non-existent, the birds have to seek other accommodation. Thus in the sparsely-populated north the species is often obliged to occupy disused woodpecker's holes or some other cavity in an old tree-trunk. The nest itself is a shallow, slightly hollowed platform of cemented saliva, in which a clutch of only two or three unspotted white eggs is normally laid.

In the adult swift all four toes are directed forwards, but during its embryonic stages and in early infancy this unusual arrangement is not so strongly pronounced and its feet will then resemble more closely those of a zygodactylous species—of which a parrot is a typical example, having two of its toes directed inwards and two outwards. The author has found that if a very young swift is removed from its nest it displays a marked tendency to climb upwards, and in doing so will employ its feet in a parrot-like fashion, But what struck him as still more remarkable was that the bird also brought its bill into use. By hooking this over any convenient object that happens to be available it will endeavour to hoist itself up by means of this member. A close examination shows that the lower mandible of an infant swift is slightly decurved, which suggests that it may be a vestigial character that was originally designed for this special

Whether swifts that are not actually engaged in nidification spend the whole of their time in the air a point that has never been satisfactorily proved. The writer is of the opinion that they very frequently do, for he has, in common with most observers, often watched them long after sunset circling at great heights in the sky overhead, whilst on one occasion at Monte Carlo he distinctly heard the screaming cry of swifts in the darkness above the brightly-lit Casino grounds. On the other hand, in late June he has found both birds roosting at the nest, which seems to indicate that, at this season, at any rate, they do rest at night. But on migration, and perhaps also while in their winter quarters, it is extremely doubtful if they ever leave what might reasonably be regarded as their

THE R.P.S. ANNUAL INTERNATIONAL EXHIBITION—1950



A Barn Owl Family

Walter E. Higham . F.R.P. S. F.I.B.P.



The Royal Photographic Society of Great Britain arranged to hold its 95th Annual Exhibition from Friday, September 15 until Sunday, October 15 at the Society's House, 16, Princes Gate, London, S.W.7, where the photographs reproduced above are on view.

























QUEEN BEES F

TRAINING CHILDREN TO TAKE AN INTEREST IN ANIMALS: MRS. DICKIN DISPLAYS A "BUSY BEES" PENNANT. THE "BUSY BEES" IS THE CHILDREN'S BRANCH OF THE P.D.S.A.



STILL TAKING AN ACTIVE INTEREST IN ANIMALS AFTER THIRTY-TWO YEARS OF DEVOTED WORK ON THEIR BEHALF: MRS.) DICKIN, FOUNDER OF THE P.D.S.A

On September 22nd, Mrs. Maria Elizabeth Dickin, founder of the People's Dispensary for Sick Animals, will celebrate her eightieth birthday. This remarkable woman spent her early life trying to relieve the suffering of poor people, especially children, living in the back streets and slums. She was horrified by the suffering of the animals belonging to those who had neither money nor knowledge to assist them in caring for their pets. On November 17th, 1917, the doors of the P.D.S.A.

CELEBRATING HER EIGHTIETH BIRTHDAY: MRS. DICKIN, FOUNDER OF THE P.D.S.A.



TO CELEBRATE HER EIGHTIETH BIRTHDAY ON SEPTEMBER 22ND: MRS. MARIA ELIZABETH DICKIN, FOUNDER AND CHAIRMAN OF THE PEOPLE'S DISPENSARY FOR SICK ANIMALS.



LOOKING THROUGH THE 32ND REPORT OF THE P.D.S.A. WHICH RECORDS THE WONDERFUL WORK OF THIS WORLD FAMOUS ORGANISATION: MRS. M. E. DICKIN.

opened for the first time, the first Dispensary being in a Whitechapel cellar. The People's Dispensary for Sick Animals has now been incorporated by Special Act of Parliament as a charitable organisation for the free treatment of sick and injured animals of the poor, and it is supported entirely by voluntary contributions. Mrs. Dickin, who was awarded the C.B.E. in 1948 for her work for animals, gave her name to the Dickin Medal which is recognised as the "Animals' V.C."

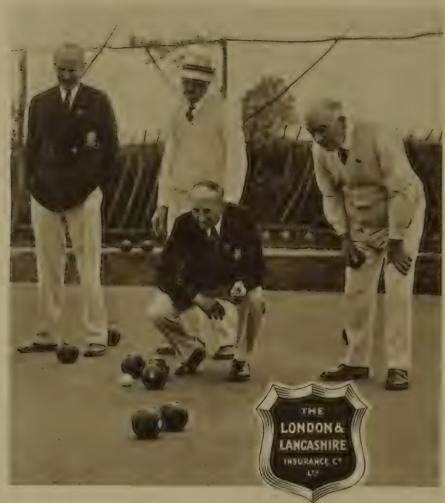
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that BHC's insecticidal powers lay almost entirely in its gamma isomer, and that in pure gamma BHC they had an insecticide which was, in some respects, the most effective ever discovered. 'Gammexane' insecticides, based on Gamma BHC, mark a significant advance because, though their effect on insects is both deadly and persistent, they are almost entirely harmless to men and animals. At home, in farms and factories, they have eradicated pests ranging from cattle ticks and wireworms to cockroaches, bed-bugs and the house fly. Overseas they have proved the most powerful of all weapons against the locust.



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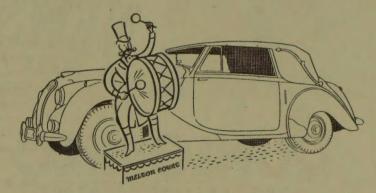
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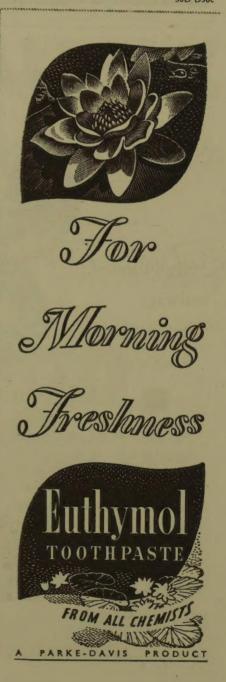
Is that likely to happen again?

I hope not. Imperial Preference has encouraged the South African wine growers to tremendous efforts. The British Government is not likely to lead such an important Empire Industry up the garden again. It wouldn't make sense.

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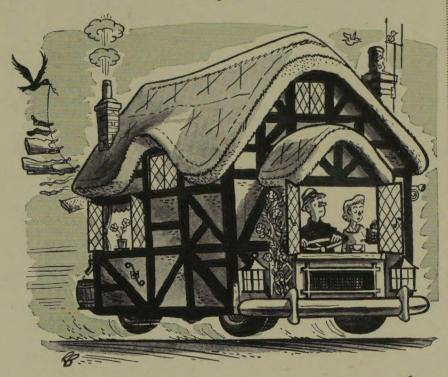




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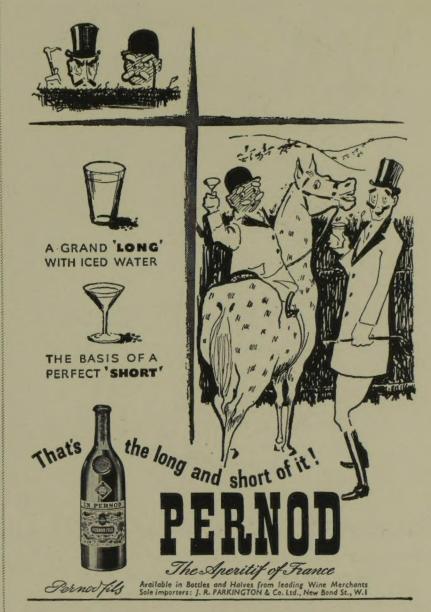
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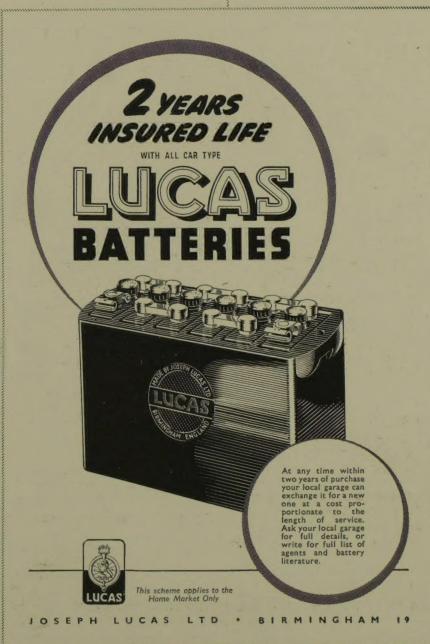


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